

## ABSTRACT

A device for treating blood in an extracorporeal circuit comprising a venous blood reservoir having an inlet and an outlet, and a hemoconcentrator  
5 having a first inlet connector for the blood to be treated, a second outlet connector for the outflow of concentrated blood, and a third outlet connector for the outflow of the ultrafiltered liquid, wherein the hemoconcentrator is disposed within the venous blood reservoir and the hemoconcentrator and the venous blood reservoir are integrated into a single monolithic assembly, and  
10 wherein the hemoconcentrator comprises an enclosure containing structure suitable to concentrate blood.